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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,854	11/30/2001	Americo Brajal	PHFR 000134	7602
24737	7590	07/15/2005	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			FOX, JAMAL A	
			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 07/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/015,854	Applicant(s) BRAJAL ET AL.	
	Examiner Jamal A. Fox	Art Unit 2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 November 2001.
 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) ☐ Claim(s) _____ is/are allowed.
 6) ☒ Claim(s) 1-10 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
 10) ☒ The drawing(s) filed on 30 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 10/015,854.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/11/2002</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because it should be a single paragraph on a separate sheet. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 9 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

5. Claim 9 recites the limitation "a computer program" in --line 1--. There is insufficient antecedent basis for this limitation in the claim.

6. Claim 10 recites the limitation "a signal" in --line 1--. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 101

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 10 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The "signal" in claim 10 is non-statutory.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

9. Claims 1-8 are rejected under 35 U.S.C. 102(a) as being anticipated by Hamman (U.S. Patent Application 09/212942).

Referring to claim 1, Hamman discloses a receiver (Figure 1 and respective portions of the spec.) for a packet transmission system of the TDMA type comprising at least a terminal suitable for transmitting, to the receiver, a packet of symbols (packet R symbols, page 3 line 19), referred to as transmitted packet, in a time interval allocated in accordance with a predetermined (predetermined, page 4 lines 6-10, page 5 lines 5-8

and page 6 lines 10-15) allocation plan, said transmitted packet comprising a useful part and a known header (preamble Pr, page 4 line 16), the receiver comprising:

means for receiving (Figure 1, ref. sign 1 and respective portions of the spec.) a packet of symbols, referred to as received symbols, corresponding to the allocated time interval (time interval, page 3 lines 20-24),

oversampling (oversampling, page 5 lines 20-25, page 6 lines 1-4, page 7 lines 5-10 and page 8 lines 2-16) means for generating oversamples (oversamples, page 11 lines 2-6) from a received symbol, and

means for recovering (Figure 1 ref. sign 8 and respective portions of the spec.) said transmitted packet for retrieving the position of the transmitted packet in the allocated time interval, comprising:

shifting means for selecting a variable computing window (window, page 7 lines 4-7) in the allocated time interval,

means for searching (search, page 6 lines 16-19) the optimal sampling instant for determining, on the basis of the generated oversamples, the optimal oversamples corresponding to the received symbols comprised in the current computing window,

means (Figure 1 ref. sign 4 and page 4 lines 13-16) for successively correlating the optimal oversamples in the current computing window with the known header (preamble Pr, page 4 line 16) of the transmitted packet, and

decision means for detecting the presence and position (position, page 9 lines 16-24) of the transmitted packet in one of the computing windows as a function of the result of the successive correlations.

Referring to claim 2, Hamman discloses a receiver as claimed in claim 1, wherein the computing window comprises a plurality of symbols which is higher than the size of the transmitted packet, the difference in number of symbols being provided for mitigating an ambiguity related to the correlation (correlation, page 2 lines 22-25, page 3 lines 1-2, page 5 lines 4-8 and page 6 lines 5-15) results.

Referring to claim 3, Hamman discloses a receiver as claimed in claim 2, wherein the optimal (optimal, page 2 lines 18-21 and page 10 lines 14-19) sampling instant is searched on the basis of received symbols situated at the end of the current window, except for the last symbols corresponding in number to said difference.

Referring to claim 4, Hamman discloses a receiver as claimed in claim 1, wherein the successive correlations increment by at most one symbol (one symbol, page 8 lines 1-10) between each correlation.

Referring to claim 5, Hamman discloses a packet transmission system of the TDMA type comprising at least a transmitter and a receiver (Figure 1 and respective portions of the spec.), the transmitter being suitable for transmitting to the receiver a packet of symbols (packet R symbols, page 3 line 19) referred to as transmitted packet comprising a useful part and a known header (preamble Pr, page 4 line 16) in time intervals allocated in accordance with a predetermined (predetermined, page 4 lines 6-10, page 5 lines 5-8 and page 6 lines 10-15) allocation plan, the receiver comprising: means for receiving (Figure 1, ref. sign 1 and respective portions of the spec.) a packet of symbols, referred to as received symbols, corresponding to the allocated time interval (time interval, page 3 lines 20-24),

oversampling (oversampling, page 5 lines 20-25, page 6 lines 1-4, page 7 lines 5-10 and page 8 lines 2-16) means for generating oversamples (oversamples, page 11 lines 2-6) from a received symbol, and

means for recovering (Figure 1 ref. sign 8 and respective portions of the spec.) said transmitted packet for retrieving the position of the transmitted packet in the allocated time interval, comprising:

shifting means for selecting a variable computing window (window, page 7 lines 4-7) in the allocated time interval, means for searching (search, page 6 lines 16-19) the optimal sampling instant for determining, on the basis of the generated oversamples, the optimal (optimal, page 2 lines 18-21 and page 10 lines 14-19) oversamples corresponding to the received symbols comprised in the current computing window, means (Figure 1 ref. sign 4 and page 4 lines 13-16) for successively correlating the optimal oversamples in the current computing window with the known header (preamble Pr, page 4 line 16) of the transmitted packet, and

decision means for detecting the presence and position (position, page 9 lines 16-24) of the transmitted packet in one of the computing windows as a function of the result of the successive correlations.

Referring to claim 6, Hamman discloses a receiving method for determining the position (position, page 9 lines 16-24) of a packet of symbols (packet R symbols, page 3 line 19), referred to as transmitted packet, the system comprising useful data and a known header (preamble Pr, page 4 line 16) transmitted by terminal of a packet transmission system of the TDMA type within a time interval allocated in accordance

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with a predetermined (predetermined, page 4 lines 6-10, page 5 lines 5-8 and page 6 lines 10-15) allocation plan, the method comprising the steps of:

receiving (received, page 3 lines 17-24) a packet, referred to as a received packet, corresponding to the allocated time interval and comprising symbols, referred to as received symbols, among which is the transmitted packet,

oversampling (oversampling, page 5 lines 20-25, page 6 lines 1-4, page 7 lines 5-10 and page 8 lines 2-16) for generating oversamples (oversamples, page 11 lines 2-6) from said received symbols,

shifting for selecting a variable computing window (window, page 7 lines 4-7) in the received packet,

searching (search, page 6 lines 16-19) the optimal sampling instant for selecting, on the basis of the generated oversamples, the optimal (optimal, page 2 lines 18-21 and page 10 lines 14-19) oversamples corresponding to the received symbols comprised in the current window, and

successive correlations in the current window between the selected oversamples and the known header (preamble P_r , page 4 line 16) of the transmitted packet, and

decision for detecting the presence of the transmitted packet in a computing window and for deriving its position (position, page 9 lines 16-24) within the allocated time interval.

Referring to claim 7, Hamman discloses a method as claimed in claim 6, wherein the decision step effects a detection of the threshold (threshold, page 9 lines 3-15) for

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each correlation result so as to derive the presence and position (position, page 9 lines 16-24) of the transmitted packet.

Referring to claim 8, Hamman discloses a method as claimed in claim 6, wherein the decision step effects a maximum (maximum, page 9 lines 3-24) computation between all the results of the successive correlations so as to derive the presence and position of the transmitted packet.

Conclusion

10. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(571) 273-8300, (for formal communications intended for entry)

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamal A. Fox whose telephone number is (571) 272-3143. The examiner can normally be reached on Monday-Friday 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to 2600 Customer Service whose telephone number is (571) 272-7268.

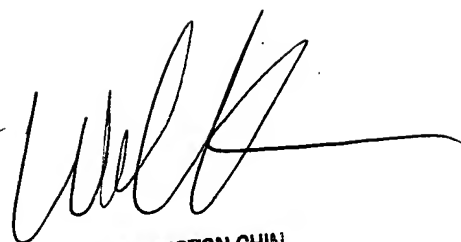
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A handwritten signature in cursive script, appearing to read "Jamal A. Fox".

Jamal A. Fox

A handwritten signature in cursive script, appearing to read "Wellington Chin".

WELLINGTON CHIN
SENIOR PATENT EXAMINER